

## ABSTRACT

## Method of obtaining an antenna gain

Method of obtaining a gain function by means of an array of antennae and a weighting of the signals received or to be transmitted by vectors ( $\vec{b}$ ) of complex coefficients, referred to as weighting vectors, according to which, a reference gain function being given, the said reference gain function is projected orthogonally onto the sub-space of the gain function generated by the said weighting vectors of the space of the gain functions, provided in advance with a norm, and a weighting vector generating the reference gain function thus projected is chosen as the optimum weighting vector.

Fig. 2